## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/15310

A. CLASSIFICATION OF SUBJECT MATTER IPC: H01L 21/336( 2006.01),29/76( 2006.01)			
L'SPC: 438/268,270;257/330 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 438/268,270; 257/330			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, mesa, lamella\$4, fin, silicon, conduct\$4, body, dop\$4, trench, groove			
C. DOC	UNIENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where ap		Relevant to claim No.
x	US 6,307,246 (Nitta et al.) 23 Oct 2001 (23.10.2001 column 10, lines 15-26, column 13, lines 6 - 29, column 14, lines 6 - 29, column 14, lines 14,	umn 14, lines 46 - 52.	1 - 26
	documents are listed in the continuation of Box C.	See patent family annex.	
"A" Jocument	pecial categories of cited documents:  defining the general state of the art which is not considered to be lar relevance.	"T" later document published after the line date and not in conflict with the applic principle or theory underlying the line "X" document of particular relevance; the	ation but cited to understand the intion claimed invention cannot be
"E" eartier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone	red to involve an investive step
<ol> <li>comment which may throw doubts on priority etain(s) or which is end to establish the publication date of another enation or other special reason (as specified)</li> </ol>		"Y" decument of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such con bination	
ur kemien	reterring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	e art
	published prior to the international filling date but later than the ate clanned	"&" document member of the same patent	family
Date of the actual completion of the international search		Date of mailing of the international search report	
29 July 2006 (29,07,2006)		21 SED 2006	
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Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Long Tran i MMINUS & MUM	
		Telephone No. 571-272-1797	
Facsimite No. 571/273-3201			
Form PCT ISA, 210 (second sheet) (April 2005)			